

DEVAL L. PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

06/28/2011

Michael Sheehan Assistant District Attorney, Essex County

Dear ADA Sheehan,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:

- 1. Curriculum Vitae for Annie Dookhan and Kate Corbett
- 2. Drug Analysis Laboratory Receipt.
- 3. Control Cards with analytical results for samples #
- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Kate Corbett was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Annie Dookhan

Chemist II

Sincerely

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6631

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- * Responsible for the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

OC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department,
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice - Forensics Professionals, (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003 MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- > Responsible for the identification of substance to determine violation of the Massachusetts drug taws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- > Prepared chemistries used in making sensor beads
- > Generated and examined sensors employing fluorescence spectroscopy
- > Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- > Carried out titrations on ricin using fluorescence correlation spectroscopy
- > Statistical analysis of experimental data

Intern (March 2003 - August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health State Laboratory Institute

Boston Drug Laboratory Tel (617) 983-6622

Amherst Drug Laboratory Tel (413) 545-2601 Fax (413) 545-2608

Fax (617) 983-6625

Boston Hours 8:00 – 11:00	DRUG REC	CEIPT	Amherst Hours 9:00 - 12:00
2:00 - 4:00			1:00 – 3:00
City or Department:	w	Police Reference No.:	
Name and Rank of Submitting Offic	cer: DET. MARK 1	RICHMOND.	
Defendant(s) Name (last, first, initia	1):		
To be completed by Submitter Description of Items Submitted		To be completed by Gross Weight	
J PB SUBSTANCE	E W/T PB (CICA)	WE 7,8g	
I PB SUBSTANCE WIT	PB SUBSTANCE	WE 3,79	
			·
	0 10		
Received by:		Date: <u>/2-</u>	9-10

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No.				Date Analyzed:	12-16-10
City:	Lynn Po	lice Dep	ot.		
Officer:	Detective	MARK RI	CHMOND		
Def:					
Amount:				Subs	st: SUB
No. Cont:	1	Cont: pt)		
Date Rec'd:	12/09/201	0		No. Analyzed	1:
Gross Wt.:	7.80			Net Weigh	t: 5.05g
A				# Tests	3:7/10/
(2)				2950	MAIC
Prelim/		6 lm /	Finding	18' (0000	

Officer: Detective MARK RICHMOND

Def:

Amount:

No. Cont:

Cont: pb

Date Rec'd: 12/09/2010

Gross Wt.: 3.70

Prelim: COMMARK RICHMOND

Date Analyzed: 12-16-10

Subst: SUB

No. Analyzed:

No. Analyzed:

Net Weight: 0.449

Tests: NAC

Prelim: COMMARK RICHMOND

Subst: SUB

No. Analyzed:

N

DRUG POWDER ANALYSIS FORM

No. of samples tested:	ANALYST KAC Evidence Wt.
PHYSICAL DESCRIPTION: 1 ph Condaining an 6 ff white Chunky Substance duble bagged	Gross Wt (): <u>(23789</u> Gross Wt ():
PRELIMINARY TESTS Spot Tests Cobalt	Microcrystalline Tests Gold Chloride TLTA (H)+ OTHER TESTS
PRELIMINARY TEST RESULTS RESULTS O O O O O O O O O O O O O O O O O O O	GC/MS CONFIRMATORY TEST RESULTS OCCUPY MS OPERATOR ASD DATE 12 14 10

DRUG POWDER ANALYSIS FORM

SAMPLE # No. of samples tested:	AGENCY UN ANALYST KAC Evidence Wt Old	
PHYSICAL DESCRIPTION: I G pb Conta off white chu I Sm pb Conta off white ch	Gross Wt (2): 0. (e8549 (Smph tolirect wot of subtouse in Pkg. Wt: Net Wt: 0.4405a (Sub. in 19 ph) WIKKY SUB	itg pl
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests	
Cobalt Thiocyanate (H) Marquis	Gold + Chloride TLTA (+) +	
Froehde's	OTHER TESTS	
PRELIMINARY TEST RESULTS RESULTS O O O O O O O O O O O O O O O O O O O	GC/MS CONFIRMATORY TEST RESULTS COCCUM MS OPERATOR ASD DATE 12 44 10	

Revised 7/2005

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12 15 10\760913.D

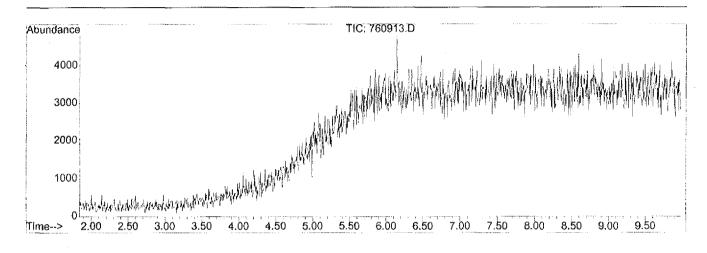
Operator : KAC

Date Acquired : 15 Dec 2010 14:50

Sample Name : BLANK

Submitted by

Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

^{***}NO INTEGRATED PEAKS***

Information from Data File:

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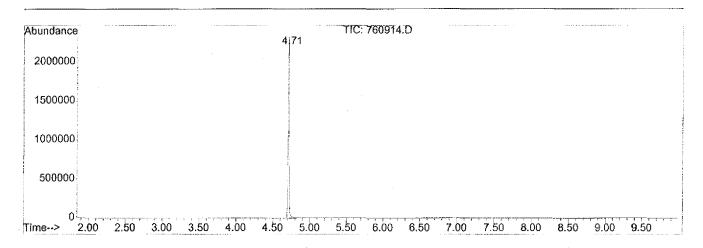
Operator : KAC

Date Acquired : 15 Dec 2010 15:03

Sample Name : COCAINE STD

Submitted by

Vial Number : 14 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.712	2239275	100.00	100.00

File Name : $F:\Q4-2010\SYSTEM7\12\15\10\760914.D$

Operator : KAC

Date Acquired : 15 Dec 2010 15:03

Sample Name : COCAINE STD

Submitted by

Vial Number : 14 AcquisitionMeth: DRUGS Integrator : RTE

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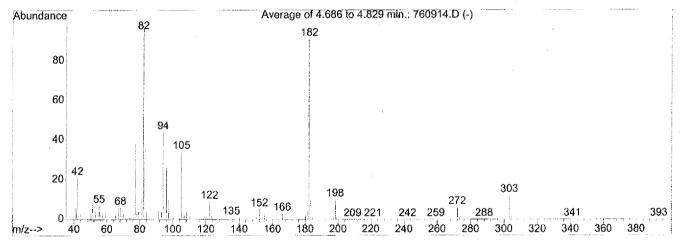
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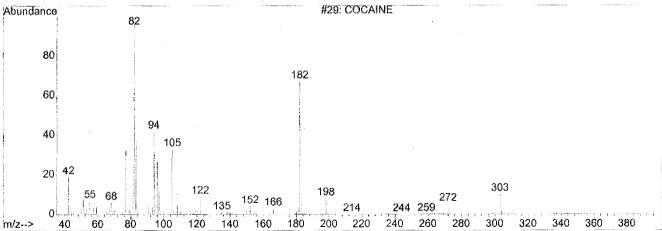
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 4.71 C:\DATABASE\SLI.L

COCAINE





760914.D

Thu Jun 23 14:11:35 2011

Page 2

000050-36-2

99

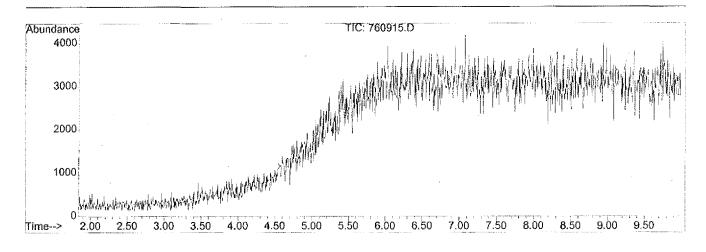
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File Name : $F:\Q4-2010\SYSTEM7\12_15_10\760915.D$

Operator : KAC

Date Acquired : 15 Dec 2010 15:15

Sample Name : BLANK Submitted by : DJR Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

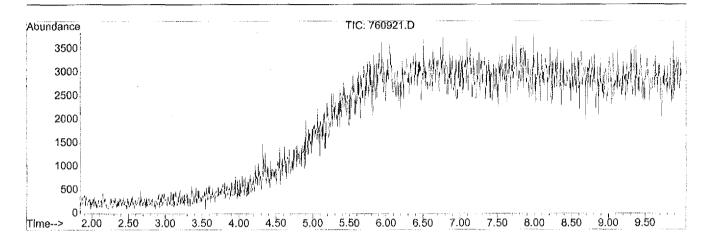
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Operator : KAC

Date Acquired : 15 Dec 2010 16:31

Sample Name : BLANK
Submitted by : KAC
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time Area Area % Ratio %

760921.D

^{***}NO INTEGRATED PEAKS***

Information from Data File:

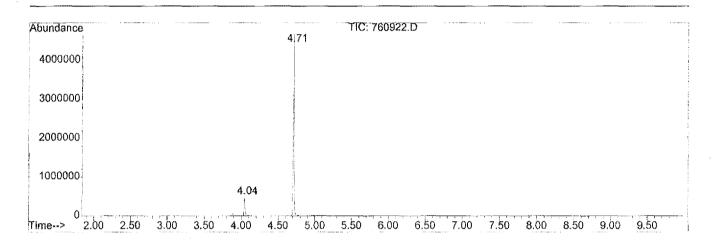
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Operator : KAC

Date Acquired : 15 Dec 2010 16:43

Sample Name :

Submitted by : KAC
Vial Number : 22
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
4.045 4.712	480636 4361267	9.93 90.07		

760922.D

File Name : $F:\Q4-2010\SYSTEM7\12_15_10\760922.D$

Operator : KAC

Date Acquired : 15 Dec 2010 16:43

Sample Name :

Submitted by : KAC
Vial Number : 22
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90 Minimum Quality: 90

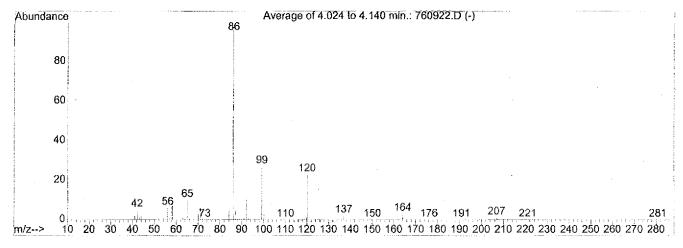
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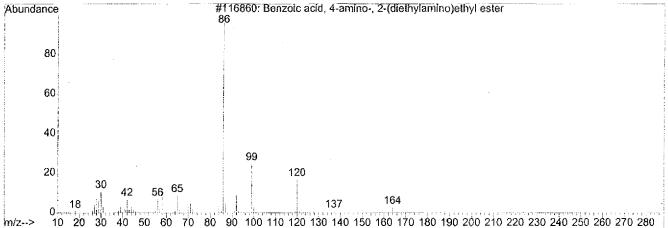
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

1 4.04 C:\DATABASE\NIST98.L

Benzoic acid, 4-amino-, 2-(diethyla 000059-46-1 87 Benzoic acid, 4-amino-, 2-(diethyla 000059-46-1 86 Benzamide, 4-amino-N-[2-(diethylami 000051-06-9 86





760922.D

Thu Jun 23 14:11:48 2011

File Name : F:\Q4-2010\SYSTEM7\12_15_10\760922.D

Operator : KAC

16:43 Date Acquired 15 Dec 2010

Sample Name

2

Submitted by KAC Vial Number 22 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

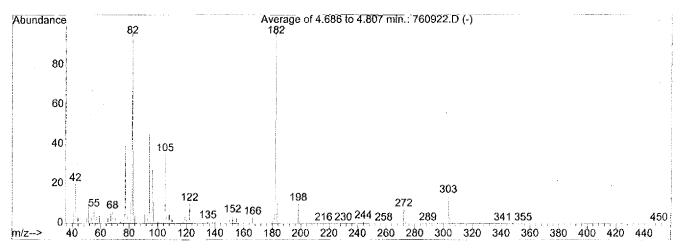
Library/ID CAS# PK# RT Qual

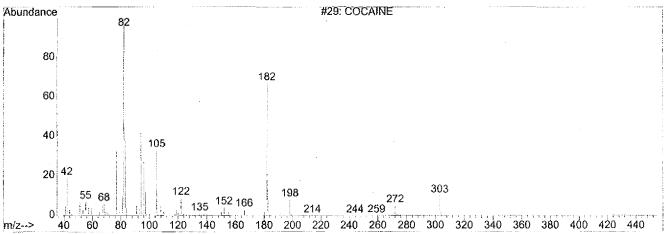
4.71 C:\DATABASE\SLI.L

COCAINE

000050-36-2

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760922.D

Thu Jun 23 14:11:49 2011

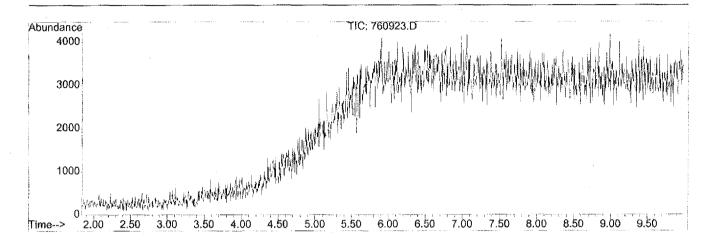
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Operator : KAC

Date Acquired : 15 Dec 2010 16:56

Sample Name : BLANK
Submitted by : KAC
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time Area Area % Ratio %

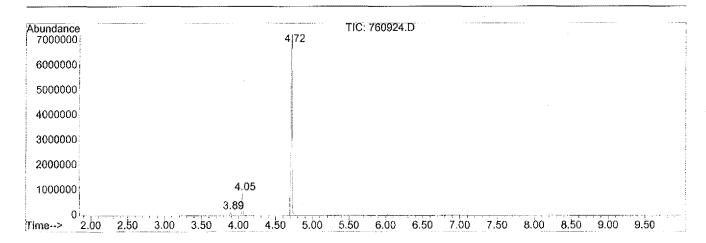
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Operator : KAC

Date Acquired : 15 Dec 2010 17:08

Sample Name :

Submitted by : KAC
Vial Number : 24
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
3.892 4.050 4.718	187722 864898 7393547		2.54 11.70 100.00	

File Name : $F:\Q4-2010\SYSTEM7\12\ 15\ 10\760924.D$

Operator : KAC

Date Acquired : 15 Dec 2010 17:08

Sample Name :

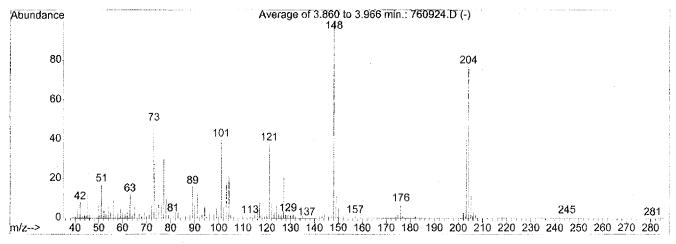
Submitted by : KAC
Vial Number : 24
AcquisitionMeth: DRUGS
Integrator : RTE

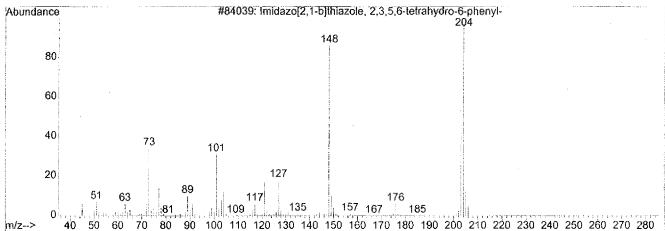
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
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		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	006649-23-6	96
		Imidago[2 1 h]thiagola	2 3 5 6-tot	006649226	Q.E.





760924.D

Thu Jun 23 14:12:02 2011

File Name : $F:\Q4-2010\SYSTEM7\12\15\10\760924.D$

Operator : KAC

Date Acquired : 15 Dec 2010 17:08

Sample Name :

RT

4.05

PK#

Submitted by : KAC
Vial Number : 24
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

Library/ID

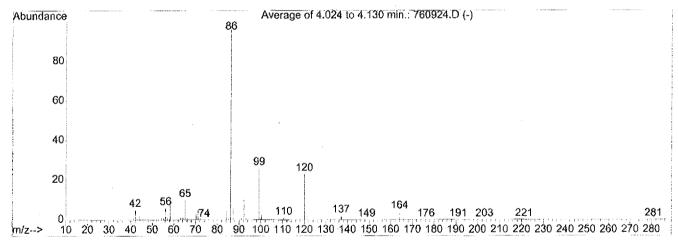
CAS# Qual

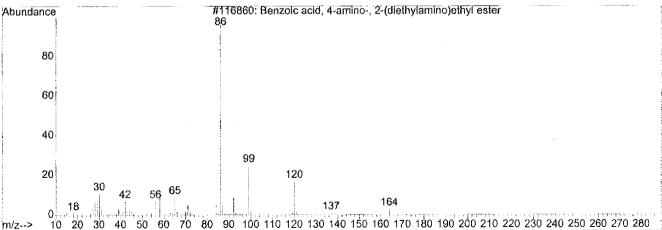
C:\DATABASE\NIST98.L

Benzoic acid, 4-amino-, 2-(diethyla 000059-46-1 87

Benzoic acid, 4-amino-, 2-(diethyla 000059-46-1 86

Benzamide, 4-amino-N-[2-(diethylami 000051-06-9 78





760924.D

Thu Jun 23 14:12:03 2011

File Name : F:\Q4-2010\SYSTEM7\12 15 10\760924.D

Operator KAC

Date Acquired 15 Dec 2010

Sample Name Submitted by

KAC Vial Number 24 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW TOX2.L

Minimum Quality: 90

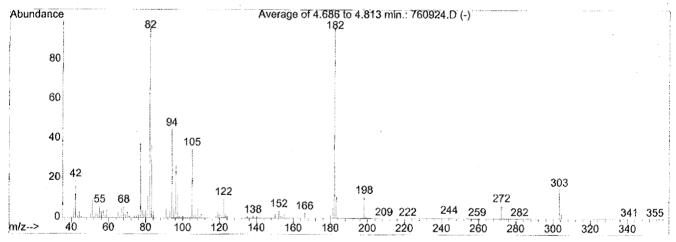
99

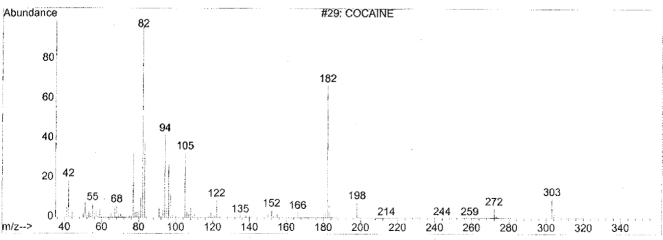
C:\DATABASE\NIST98.L

PK# RTLibrary/ID CAS# Qual

3 4.72 C:\DATABASE\SLI.L

COCAINE 000050-36-2





760924.D

Thu Jun 23 14:12:04 2011

Page

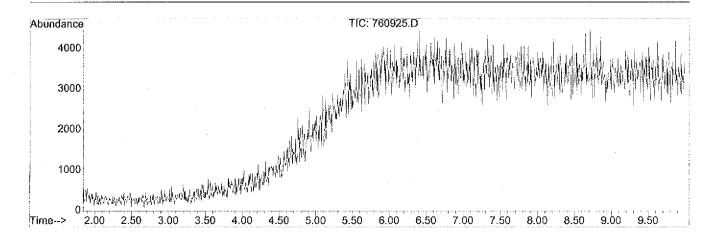
Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\12_15_10\760925.D

Operator : KAC

Date Acquired : 15 Dec 2010 17:21

Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time Area Area % Ratio %

Information from Data File:

File Name : $F:\Q4-2010\SYSTEM7\12_15_10\760933.D$

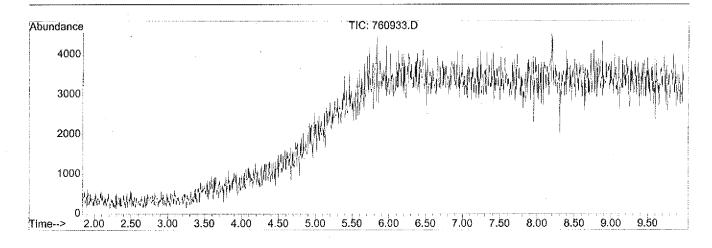
Operator : KAC

Date Acquired : 15 Dec 2010 19:02

Sample Name : BLANK

Submitted by :

Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

Information from Data File:

File Name : $F:\Q4-2010\SYSTEM7\12\15\10\760934.D$

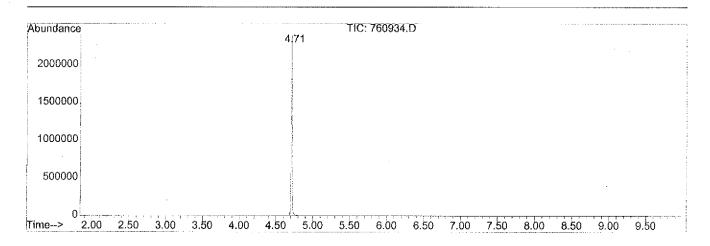
Operator : KAC

Date Acquired : 15 Dec 2010 19:15

Sample Name : COCAINE STD

Submitted by :

Vial Number : 34 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.707	2212037	100.00	100.00

File Name : $F:\Q4-2010\SYSTEM7\12\ 15\ 10\760934.D$

Operator : KAC

Date Acquired : 15 Dec 2010 19:15

Sample Name : COCAINE STD

Submitted by :

Vial Number : 34 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

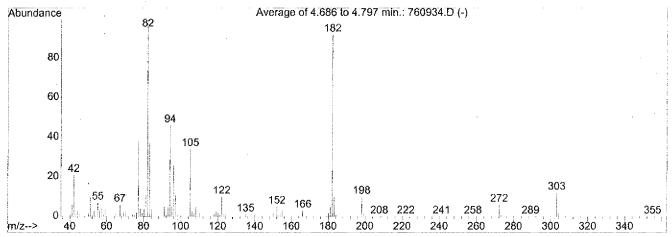
C:\DATABASE\NIST98.L

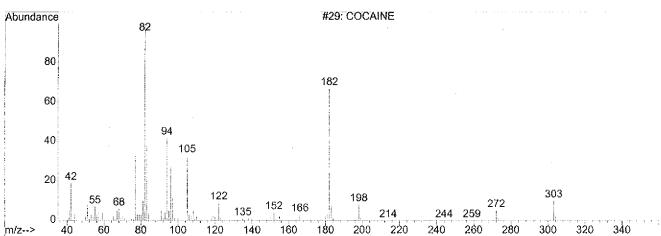
PK#	RT	Library/ID	CAS#	Qual
	*			

1 4.71 C:\DATABASE\SLI.L COCAINE

000050-36-2

99





760934.D

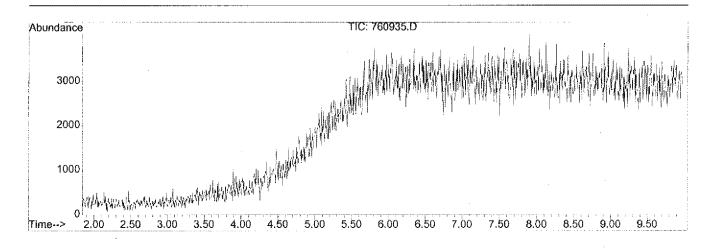
Thu Jun 23 14:12:17 2011

File Name : F:\Q4-2010\SYSTEM7\12_15_10\760935.D

Operator : KAC

Date Acquired : 15 Dec 2010 19:27

Sample Name : BLANK Submitted by : ASD Vial Number : 1 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %